

CAMPUS NEWS

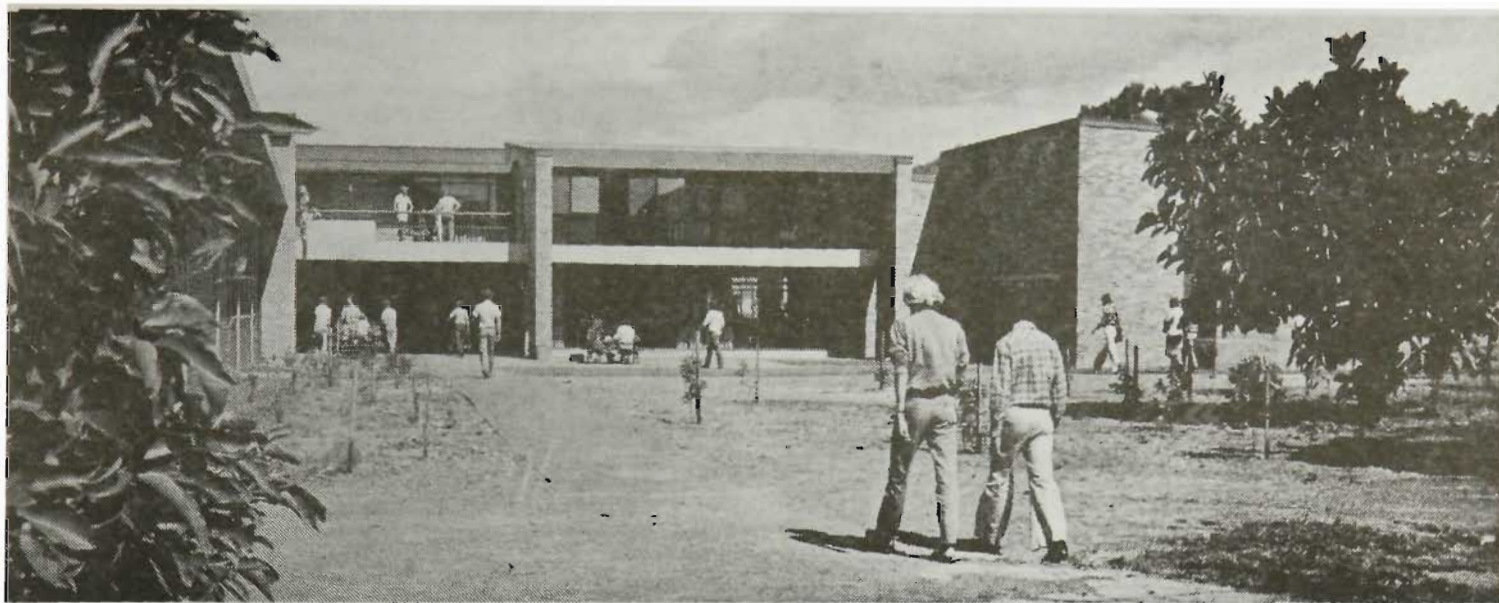
A MAGAZINE FOR THE UNIVERSITY

VOL. 2 NO. 4

APRIL 21, 1976

UNION STAGE III & SPORTS PAVILION

Buildings are officially opened



UNION Stage III building's northern aspect, which looks over the central campus area. The squash courts are in the section on the right. Behind the glass windows on the first floor is the Northern Lounge, which opens onto the open-air balcony. The dining room is on the ground floor beneath the Southern Lounge.

Two buildings which form an integral part of the University's cultural, recreational and sporting activities were officially opened on April 2.

The Lord Mayor of Wollongong, Alderman Frank Arkell, opened Stage III of the University Union building.

At a ceremony held in the Stage III dining room, Alderman Arkell unveiled a plaque to commemorate the occasion.

Later, the Vice-Chancellor, Professor L. M. Birt, opened the Sports Pavilion for the University Sports Association.

At a ceremony held in the Pavilion's club room, Professor Birt, who is patron of the Sports Association, unveiled a plaque to mark the occasion.

In opening Stage III, the Lord Mayor said: "This University of Wollongong can be said to be, I think, closer to the community than its mother and its older sisters.

"There is more identification with the city and its citizens at Wollongong than can be said of other universities."

Alderman Arkell said he was particularly proud because it was the first time that a mayor or a lord mayor had been honoured with the task of officially opening anything on the campus.

The Union building formed yet another link in the chain of development and maturity of the University.

He said: "This Union building will be the soul of the University. It combines students and staff.

"It brings together all the hopes, all the yearnings, and all the aspirations of the students--our future generation of citizens--and the intellectual drive and enthusiasm of the staff.

"The combination of these two segments of our society is bound to have a tremendous impact on the growth and development of our city."

More about the official openings on Pages 6 and 7.

LETTERS

Snippets from the Academic Senate

The Editor,
Campus News.
Dear Sir,

The April meeting of Senate will see the end of the term of office of some of the members who constituted the first elected Senate of the University.

I thought this may be an appropriate occasion to share with your readers some of the highlights of the year's proceedings. These are described below:

A member referring to the minutes of the meeting of one of the Senate's committees - "...gumboots squashing on a cow patch ... jackboots treading on lilies ..."

A member after a long and tedious session at Senate, just prior to breaking up ... "Despite the pulls of bladder, belly and backache, Mr. Chairman, I wish to move that ..."

On some occasions the meeting of Senate sees a frequent exchange of notes among members. During one such session this note arrived on the table of the Chairman. "Dear Alan, Just nothing! I thought I would send you this note as I haven't done so all this year."

After listening to a discussion on a report of a committee, one of its members wrote the following against his name in the report. "Who is sadder, not much wiser, and much more confused."

B. C. Moldrich
(Mr. Moldrich is secretary of the Academic Senate.)

Proposals are regressive

The Editor,
Campus News.

Dear Sir,

Members of the University other than Senators and Chairmen of Departments may by now be aware that Senate at its next meeting on April 28 will have a paper before it from the Vice-Chancellor entitled "Academic Structure and Communication in the University". While generally endorsing the proposal that faculties should have increased responsibility within the academic structure, I believe that the proposals for inclusion of departmental chairmen on Senate are regressive and not in the best long term interests of this University. I intend to represent this point of view at the Senate meeting and would be interested in hearing the opinions of other members of the University.

B. J. Opie,
Department of English.

A Wollongong Apex Club thankyou

Dr. Neil Adams, Department of Psychology, has received the following letter from Wollongong Apex Club.

Dear Dr. Adams,

On behalf of Wollongong Apex Club, I would like to thank you for being our guest speaker at the recent dinner meeting held at the University.

We were also very appreciative of the opportunity to use the University facilities and I would be grateful if you would pass on our thanks to all concerned.

Graham Lawery,
Secretary.

Report from AVCC

The University has received the report, set out below, from the Australian Vice-Chancellors' Committee.

The Vice-Chancellor, Professor L. M. Birt, tabled the report at the Academic Senate's March meeting.

DISCUSSIONS WITH MINISTER FOR EDUCATION. The chairman (Professor D. P. Derham), the deputy chairman (Professor Sir Zelman Cowen), and the secretary (Mr. F. S. Hambly) held discussions in Canberra on January 27 with the new Minister for Education (Senator J. L. Carrick).

The Minister said that his Government accepted the principle of triennial funding for universities, and hoped the triennial system would be resumed in 1977. Further, he said that supplementation of university grants would be continued. The Minister made it clear, however, that funding in all areas was going to be tight and that universities could find themselves in no-growth situations, at least for the next triennium, but that his Government's policy was that standards should not suffer.

The AVCC is preparing itself to make representations to the Minister in the event of advice being received that the resumption of the triennium in 1977 is in doubt.

TERTIARY EDUCATION COMMISSION. The Minister is looking closely at the Bill for the TEC which was introduced into the Parliament by the previous Government, but not enacted before the Parliament was dissolved. The AVCC has written to the Minister stressing the special position of universities and urging that the Universities Council should have a statutory responsibility to consult universities and a statutory right to advise the TEC.

STUDENT ASSISTANCE. Shortly after the new Government was elected, the AVCC chairman wrote to the Minister seeking a further allocation of funds for tertiary institutions to enable them to assist needy students. The Minister has replied that, in the present climate of economic restraint on public expenditure, it is not possible to make funds available for this purpose in the immediate future. The Minister has also indicated that there will be no increase in the TEAS allowances or postgraduate stipends before the 1976-77 budget. The AVCC will write to the Minister in April stressing the importance of the need for increases in TEAS allowances and postgraduate stipends in 1977.

MEETING WITH AVCC. The Minister will meet with the full AVCC during its meeting at Macquarie University on April 21.

ACADEMIC SALARIES. On January 21, the AVCC chairman and secretary met the new Minister for Administrative Services (Senator Withers), who has responsibility for the Academic Salaries Tribunal, for general discussions. AVCC representatives (Sir Zelman Cowen, Mr. K. L. Jennings, and Mr. F. S. Hambly) appeared before the plenary session of the Academic Salaries Tribunal in Canberra on February 17 and 18 in connection with its current review.

RESEARCH FUNDING. In September, 1975, the universities, as a means of overcoming an apparent crisis in research funding through the ARGC for 1975-76, agreed to provide bridging finance for the period from January-June, 1976, on condition that funds would be provided out of the 1976-77 budget to cover the bridging finance. The caretaker Minister for Science and Consumer Affairs (Senator Cotton) gave specific assurances in December, 1975, that a Liberal and Country Party Government would honour the special funding arrangements for the ARGC in 1975-76 which the universities had entered into with the previous Government. The AVCC has written to the new Minister for Science (Senator Webster) seeking a reconfirmation about the ARGC funding and, in particular, an assurance that the balance of the grants will be paid in July, 1976.

SUPERANNUATION. The AVCC has written to the Minister for Education renewing the representations on behalf of the universities to have them approved in principle as "approved authorities" for the proposed new superannuation scheme for Australian Government employees which, it is understood, will be introduced with effect from July 1 this year.

Liaison takes new directions

Schools Liaison is taking new directions this year. At the seminar on academic staff involvement in Schools Liaison, held in November last year, the point was made that many of the staff were not made sufficiently aware of the activities carried out in this area.

In response to this, a meeting was arranged with representatives from the high schools, and a joint programme for schools liaison work was produced.

A meeting has already been held with departmental chairmen to discuss these proposals and to seek their suggestions. Further information will be provided throughout the year by the Vice-Chancellor, Professor L. M. Birt in his reports to the Academic Senate.

Mr. B. S. Gillett, South Coast Area Director of Education, delivered an address at the seminar and made the point that liaison with schools would be even more important if the Higher School Certificate was abolished.

He saw this as very possible, and went on to say, "What are you going to look to in its place?" One answer is that secondary and tertiary institutions should work together more closely for mutual benefit, but particularly for the benefit of the students.

Hopefully, some of the points made here will be raised, and an opportunity given for their discussion and development, at a symposium to be staged at the University in June. School and university staff will be invited to attend and make contributions to the theme area of "Transition from School to University".

Visits to schools have already commenced for 1976 and Professor A. Keane, Deputy Vice-Chancellor and Professor of Mathematics, and Doctor R. T. Whewey, senior lecturer in Mechanical Engineering, have given their assistance with these visits.

This year the liaison programme will be extended to include some schools in the St. George area. Sylvania High School and Cronulla High School have already been visited and expressed appreciation and support for this activity.

Another "extra" this year will be to arrange for representatives from students in the country areas of the South Coast Area Directorate to visit the University for two days. The high school principals have indicated that they will arrange billets for the visitors.

No date has been set for the event, but enquiries are being made as to the suitability of a date either at the end of July or in early August.

Mrs. Dorothy Schneid,
Schools Liaison Officer

3 Rounds of offers were made

The University sent out rounds of offers for new undergraduate degree students on January 23, February 11, and March 2.

At March 22, 4269 offers had been made. Total enrolments were 836. (This is a gross figure and does not include withdrawals.)

At the University Council's direction at its February 27 meeting, the third round of offers was made in accordance with academic merit across the University.

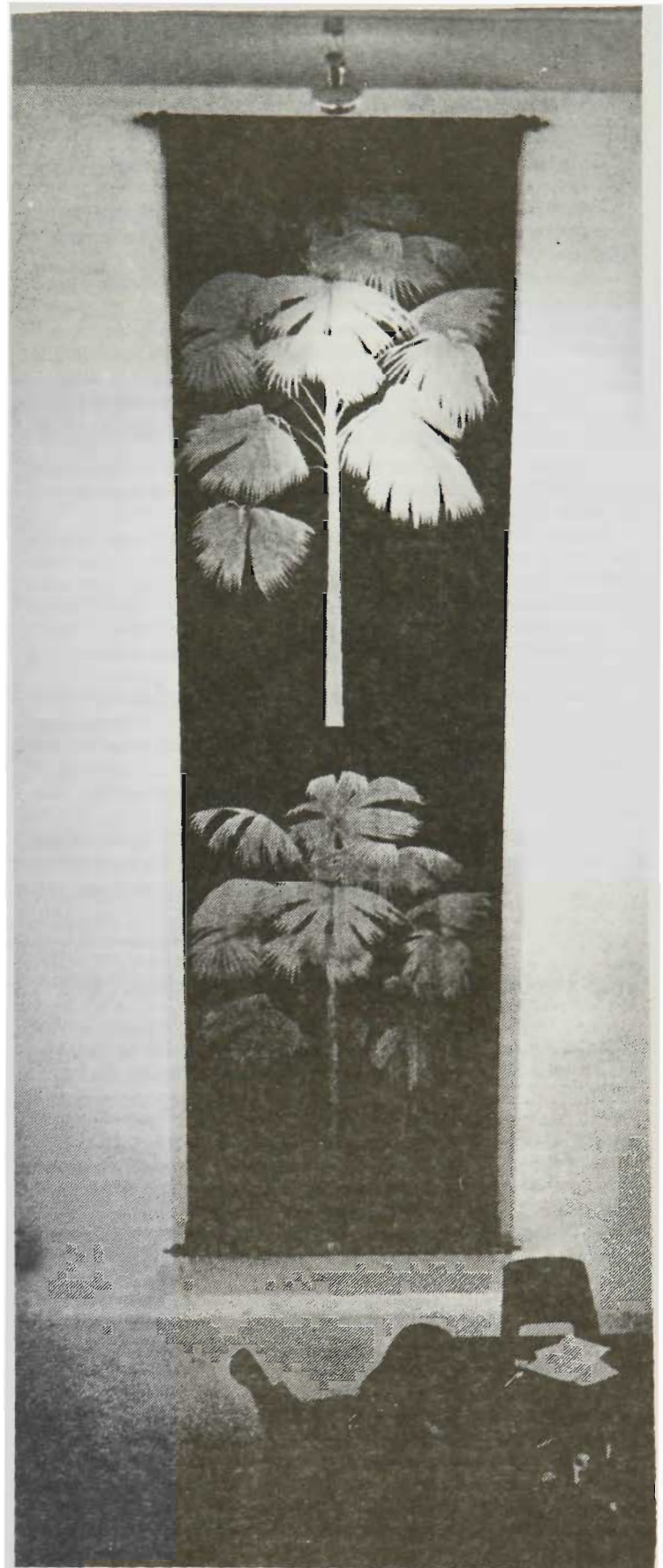
As a result, the H.S.C. aggregate was equalised between degree courses. The minimum H.S.C. aggregate for offer of a place finished at 425.

At March 22, the science-based faculty mix (including higher degrees) was 31.6 percent compared with 31 percent in 1975. The percentage of offers accepted at March 22 stood at 19.6.

The target figure for new enrolments is 672, and is derived from the total number of bachelor students 1942 (from the Universities Commission) less estimated re-enrolments 1270.

At the April 30 audit date last year, new enrolments were 830.

At March 22 this year, the grand total of persons enrolled was 2279 (1855 EFTS) against a planned total of 2225 (1830 EFTS).



ONE of the decorative fabric hangings adorning the walls of the Union Stage III building. This one is in the dining room.

Relic beach uncovered at Bulli

During June, 1975, large waves and strong sea currents stripped sand from beaches along the Illawarra coastline.

On most beaches, the stripping was evident as lower, flatter beaches with sand cliffs cut in the dunes.

Elsewhere, erosion uncovered sedimentary material similar to that presently being deposited in the mangrove swamplands of Minnamurra or in the swamps near Shellharbour.

The erosion revealed outcrops of peat on Shellharbour Beach and estuarine muds on the beaches at Thirroul and Bulli.

Clearly, these beaches have undergone extensive changes in geologically recent times. The nature of these changes holds implications for utilisation of the Illawarra shoreline.

The exposure at Bulli Beach provides the most extensive sequence of sediments. The uppermost layers are oxidised, a reddish brown colour, and sand mixed.

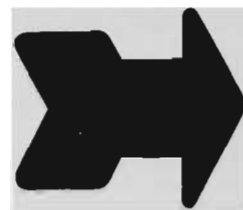
One-and-one-half metres below this are dark-grey muds containing the 6000-year-old stumps of mangrove trees, with fragments of sheoak (*Casuarina sp.*) and charcoal.

Further down, about two metres below the highest layer close to the present low-tide water level, the muds are a lighter grey with bands of fossil shells. Bore holes reveal that these clays pass back into oxidised red clays, over more light-grey clays and then, at about six metres below the surface, into beach sands.

These sands overlie the bedrock of the embayment containing the present-day beach.

The sequence is that which fieldworkers would expect to find in an estuary similar to Minnamurra, or a coastal lagoon, where swamplands are separated from the sea by a barrier of sand dunes. In this instance, the barrier has been eroded, with some of its sand lost to the sea and the remainder driven back over the old swamp (see diagrams).

On other parts of the N.S.W. coastline, Dr. B. G. Thom, of the University of Sydney, has found that such changes are caused by a recent rise in sea level that started about 10,000 years ago and continued until 4000 years ago.



Since that time, the beaches are thought to have stabilised or steadily retreated landward. The rates of retreat have varied considerably along the N.S.W. coast.

From dated sediments from Thirroul, Dr. R. Young (Geography) has found that erosion may have begun earlier on the north Illawarra coast than elsewhere.

Drs. B. Jones (Geology), R. Young, and I. Eliot (Geography), with the support of a University of Wollongong research grant, are currently investigating this through a more detailed examination of the Bulli sedimentary sequence.

The study by Drs. Jones, Young and Eliot demonstrates that there has been long-term shoreline retreat in the vicinity of Bulli and Shellharbour.

Whether these results hold true for the remainder of the Illawarra coast needs investigation urgently.

If shoreline retreat has been more rapid along the Illawarra than in other parts of N.S.W., there is a need for more careful planning in utilisation of beach resources.

Depletion of coastal sand reserves through activities such as sand mining may well exacerbate the tendency to erosion.

Further, houses built close to or on the foredune line, as at Shellharbour, must come under increasing threat with the passage of each coastal storm.

Staff restructuring completed

Restructuring of administrative staffing, as defined by the Vice-Chancellor's response to the Keane Committee Report, had been completed.

The Vice-Chancellor, Professor L. M. Birt, informed the March meeting of the Academic Senate that Central Administration now had a staffing "establishment" of 63.5 posts and that the Estate Division (buildings and grounds) had 10.5 posts plus trade staff.

He said: "Each administrative division has considered the ways in which it can achieve the savings against budget which I requested (equivalent to a six percent vacancy rate in staffing).

"The administration as a whole has been able to identify the necessary reduction in expenditure for 1976.

"Members of Senate will probably be aware that these changes have diminished administrative staffing to a point at which service activities are both slower and less extensive than previously.

"Such problems may become more severe during the year, but I hope that both academic staff and students will be tolerant of this situation, which arises from an attempt to protect as fully as possible funding for teaching and research during the year."

Think — and save power

The University this year is facing ever-increasing recurrent costs. A major cost, always on the increase, is the annual electricity bill.

It is anticipated this year the bill will be more than double last year's, as a result of the new buildings and an increase in electricity rates.

Savings can be made if all campus users of electrical energy co-operate and try to conserve power wherever possible. For example:

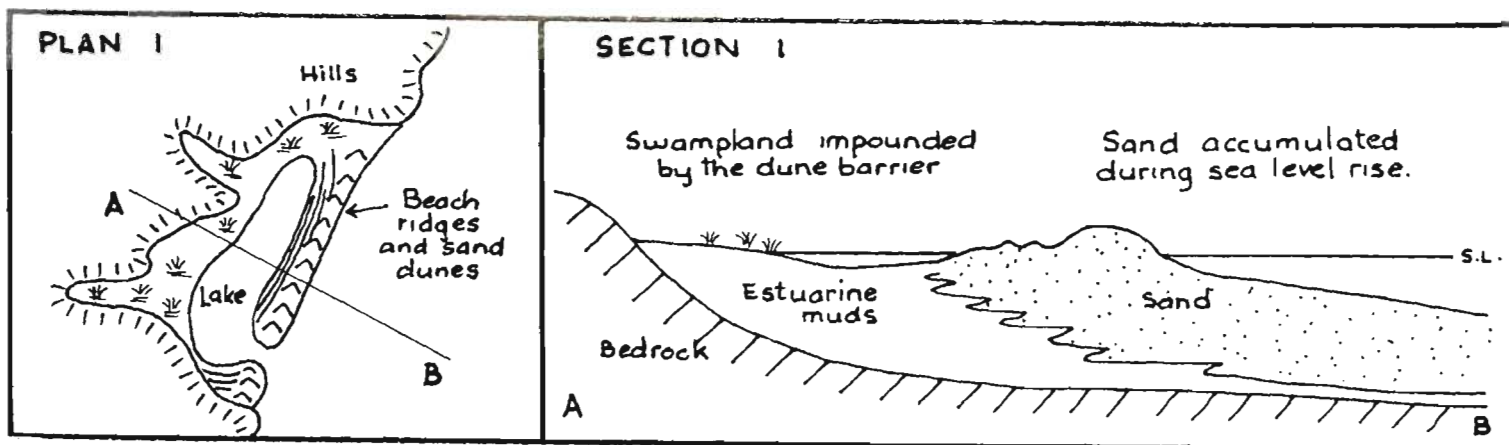
1. Do you really need your office lights burning all day when natural light is available?
2. Lecture and classroom lights should be switched off by the last person leaving the room, whether it be staff or student.
3. Is it necessary to have public area lights in buildings burning all day? Corridors, stairways and toilet lights are not always necessary.
4. Turn off all equipment in laboratories as soon as the experiment is completed.
5. As winter approaches, most people turn on radiators and leave them on all day.

Our maintenance, cleaning and patrol staff have been instructed to use only minimal requirements while carrying out their duties.

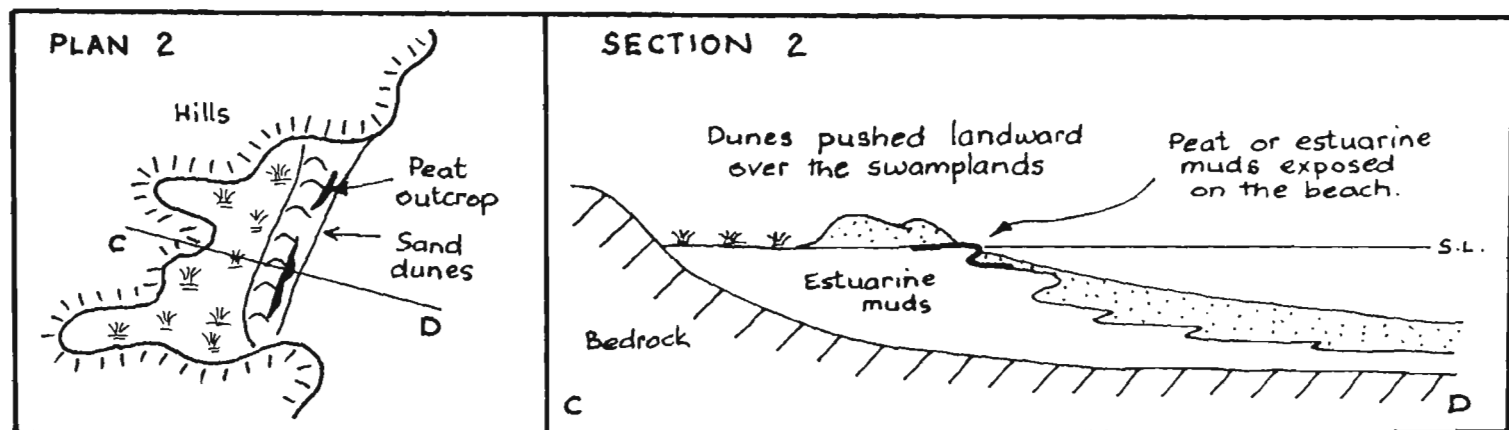
Air-conditioning and auxiliary plant will be run at minimum levels and for minimal periods.

Your cooperation would be greatly appreciated, because every kilowatthour of electrical energy saved will make good "cents".

J. F. Bell,
Estate Manager.



Dune and swampland sequence in which the barrier dune developed during the sea-level rise from 10,000 to 4000 years (before present) and has remained stable since that time. This condition is thought to apply to the Windang Barrier complex. It contrasts with the condition below.



Dune and swampland sequence in which the dune barrier has been eroded and driven back over the estuarine deposits. This condition is thought to apply at Bulli and Shellharbour. (Both diagrams follow models described by B. G. Thom, *Search*, 1974, 5 (5): 206.)

Astronomy builds strong link

The strong link between the Illawarra Astronomical Society and the University of Wollongong began with the society's formation in 1962.

In that year a series of lectures on "Outer Space" was arranged by the W.E.A. and given by University of Wollongong physics Lecturer, Mr. Abe Segal.

The lectures generated so much interest that the people who attended then decided that the interest should be maintained. With Mr. Segal's aid, they formed the Illawarra Astronomical Society.

For the first few years, monthly meetings were held in members' homes. Then the society moved to West Wollongong where a clubhouse was erected.

At that time the society possessed a six-inch reflector telescope and a two-and-a-quarter-inch refractor telescope.

Later, the society built a ten-inch Newtonian reflector telescope which was housed in an observatory erected beside the clubhouse.

In March, 1969, the then Lord Mayor of Wollongong, Ald. E. Ford, officially opened the clubhouse and dedicated the new telescope.

In 1970, the society hosted the Fourth National Australian Convention of Amateur Astronomers at Wollongong University College.

From its formation, the society has published a house journal called *Galaxy Gazette* which is posted to members and other astronomical societies in Australia.

In April, 1975, Mr. W. Ede, who had been secretary of the society since its inception, died. His death meant that the society lost not only a loyal and dedicated worker but also the use of the society's clubhouse and observatory, which were sited on his property at West Wollongong.

The last meeting was held in the clubhouse in September, 1975.

Because of the invidious position in which the society was placed, the W.E.A. and the University gave assistance.

At present, the society holds its general meetings at the W.E.A., Adult Education Centre, 79 Corrimall Street, on the second Saturday in each month starting at 7.30 p.m.

The society is negotiating with the University to build a complex on the same property as the University's observatory.

The society caters for those primarily interested in astronomy, but it also caters for those interested in such fields as electronics, amateur radio, photography, printing, publishing, and writing.

In addition, social activities are held regularly.

Over the years, the society has catered for social clubs, schools, church organisations and visitors. A basic introduction to astronomy is given; the format is designed to suit any particular group.

This year at the monthly meetings, the society is presenting lectures delivered by University staff and society members.

University staff include Professor B. Halpern Professor of Chemistry; Dr. N. L. Adams, lecturer, Department of Psychology; and Mr. Segal.

Members of the University are invited to attend the meetings.

For further information write to the society's public relations officer, Wally B. Anglesea, 40 Eleebana Crescent, Koonawarra, N.S.W. 2530, or phone 29 4061 / 84 0115.

UNIVERSITY GOVERNMENT NEWS

The University Council

This report covers business dealt with at the University Council's February meeting. Other business items from this meeting were reported in Campus News Vol. 2 No. 2 (March 10, 1976).

ADMISSION OF MISCELLANEOUS STUDENTS. The Council resolved that the recommendations of the Academic Senate be referred back for a statement of reasons: (a) for the proposed variation from the existing conditions governing the admission of non-degree students; and (b) the provision of specific mention of a Departmental Chairman.

DELEGATIONS TO UNIVERSITY COMMITTEES. The Council noted: (a) that the composition of the Graduate Studies and Undergraduate Studies Committees does not preclude student membership; (b) that legal advice has indicated that the Council could delegate authority to its members or its officers; (c) that the Academic Senate's recommendations did not involve a change in composition; rather, they involved an amendment of the Committees' terms of reference to make them advisory to the Vice-Chancellor, who would have the delegated authority to approve the Committees' recommendations.

The Council referred the proposals back to the Academic Senate along with the following views expressed by some members; (a) that students be precluded from membership of these Committees so that the necessary authority could be delegated; (b) that the arrangement in (a) would also save resources, as the decisions of the Committees could be implemented by the Registrar without having them submitted to the Vice-Chancellor for approval; (c) that, as both Committees were actually concerned with student matters, a student should serve on each of them and that, if there were legal impediments, the difficulties might be overcome by the appointment of a student member of Council to each of the Committees.

EXCLUSION OF STUDENTS. The Council rescinded resolution 162. It delegated to the Vice-Chancellor the authority to re-enrol students or to enrol new students on the recommendation of the Undergraduate Studies Committee (in the case of bachelor degrees) and the Graduate Studies Committee (in the case of higher degrees and diplomas).

It also delegated to the Vice-Chancellor the authority to exclude from attendance in a subject or course, on the recommendation of the Undergraduate Studies Committee (in the case of bachelor degrees) and the Graduate Studies Committee (in the case of higher degrees and diplomas), any student whose academic record at the University demonstrated the student's lack of fitness to pursue the nominated course of study.

TERMS OF REFERENCE AND COMPOSITION. The Council referred back to the Academic Senate the terms of reference and composition of the Graduate Studies Committee and the Undergraduate Studies Committee.

UNIVERSITY ACT. The Council resolved (a) that the Legislation Committee be requested to report on any amendments to the University Act including delegations to persons other than those now named in the Act; and (b) that Section 19 of the Act be amended to provide for the appointment or election of a chairman of a committee and for the Chancellor or, in his absence, the Deputy Chancellor, to preside at meetings of a committee in the absence of its chairman or at his invitation.

ASSOCIATION OF AUSTRALIAN UNIVERSITIES PROPOSAL. The Council, having considered a proposal, transmitted by the University of Adelaide Council, for the establishment of an Association of Australian Universities, noted that, in terms of the University of Wollongong Act (1972), authority could not be delegated to such an association and agreed that a *prima facie* case had not been made for the establishment of such an association, but nonetheless referred the proposal to the Faculties for comment through the Academic Senate.

HONORARY DEGREES COMMITTEE. The Council resolved that honorary degrees should be awarded normally on the criteria of: (a) significant services to the University; and (b) significant scholarship. The Council noted that the Honorary Degrees Committee considers that the circumstances in which the qualification "normally" might apply are; for example: (a) where there is special formal relationship involving a significant service to the University; and (b) where an outstanding scholar has a connection with the University.

The Academic Senate

This report deals mainly with business from the Academic Senate's March meeting.

RESIGNATION OF MR. R. PEDERSEN. The Academic Senate has noted the resignation of Mr. R. Pedersen (from February 25) and records its appreciation of his services as a member.

TRIENNIAL PLANNING. The Academic Senate has resolved, at its April meeting, to determine its response to the following suggestions of the Vice-Chancellor: (a) that the Triennial Submissions made by the University are statements of its policy and planning proposals for the period of the triennium; (b) that planning is to proceed during the triennium on the basis of the total student load, postgraduate student load, science-based student load, building programme, capital equipment needs, and new academic developments defined in the Submission and in the response by the Universities Commission; (c) that the bases referred to in (a) and (b) be applied to the 1977-79 Triennium Submission and the Universities Commission's response to it.

EXAMINATION APPEALS COMMITTEE. The Academic Senate has resolved that all appeals by students against the assessments declared (or recommended) by the Academic Senate under section 12.4 of the Bachelor Degree Requirements shall be considered by an Examination Appeals Committee consisting of the chairman of the Academic Senate; the deputy chairman of the Academic Senate; and the chairmen of the University's Examination Committees.

If any of these members is from a department against which an appeal is directed, such a member shall not form part of the Appeal Committee. The **Examinations Appeals Committee chairman** shall be the chairman of the Academic Senate unless disqualified from membership by virtue of the previous provision; in such circumstances, the remaining members shall elect a chairman for the consideration of the appeal. The **Examination Appeals Committee** shall determine its own procedures and the form of its report to Senate. Normally, the Registrar shall be in attendance at meetings of the Committee.

ASSESSMENT. The Academic Senate has requested the Registrar to prepare a report on assessment which may provide guidelines for departments, leading to a more uniform and possibly more equitable approach across the University to methods of assessment, and to the dissemination of information about and the recording of information on assessment.

The Academic Senate has recorded that this request to the Registrar has been made in the light of inquiries which indicated that there could be problems of communication of academic problems between students and supervisors/examiners which could be particularly serious where continuous assessment techniques are used. Further, that a full range of marks does not always seem to be used by all examiners, e.g., it is questionable whether pass terminating is available in all departments.

ASSOCIATION OF COMMONWEALTH UNIVERSITIES PROPOSAL. The Academic Senate has referred a proposal for the establishment of an Association of Australian Universities to the Faculties for comment in time for consideration by Senate at its August meeting this year.



GRADUATE AND UNDERGRADUATE STUDIES COMMITTEES. The Academic Senate has re-affirmed its previous resolutions relating to the composition and the terms of reference of the Graduate and the Undergraduate Studies Committees and notes that these arrangements (a) meet the legal requirements associated with the delegation of authority by Council; (b) are consistent with the existing delegations of authority to the Vice-Chancellor; (c) create no significant difficulties or costs in the consequential administrative procedures.

ADMISSION OF MISCELLANEOUS STUDENTS. The Academic Senate has resolved (a) that the University will continue to enrol students not proceeding to a degree or diploma and that credit may not necessarily be granted subsequently towards a degree for a subject taken by such students; (b) that, as the admission of miscellaneous students has resource implications for a department, it is appropriate for the Departmental Chairman's recommendation to be available to the Vice-Chancellor before approval is granted for the admission of a non-degree student.

COMMITTEES. The Academic Senate has recommended that the elected members of departmental committees shall have a one-year term of office. The Registrar has been requested to report on student membership of the Academic Senate, its committees, the Faculties, and the departmental committees.

RELEASE OF EXAMINATION RESULTS. The Academic Senate has resolved that secondary schools within the New South Wales Department of Education South Coast Area Directorate be given: (a) general examination results by % pass rates in the subjects offered by the University; and (b) subject to the availability of the data, the results of first-year students classified according to the school from which they came; such data to be released on a confidential basis and limited only to the school from which the students attended immediately prior to their entrance to the University.

ACADEMIC POLICY AND ENROLMENT PATTERNS. The Academic Senate has resolved that a University Seminar be organised on the question of generalist and specialist first-degree courses and that it be held before the departmental submissions are required for the next triennial submission; that Professor Willett, Vice-Chancellor, Griffith University, be invited to participate in the Seminar; and that the Vice-Chancellor be invited to act as convenor.

ELECTORAL PROCEDURES. The Academic Senate resolved that, whenever a casual vacancy which must be filled by election, occurs in the membership of any unit of the academic structure, the

person so elected shall hold office for the residue of the term of office of the person resigning.

EXAMINATION RESULTS. The Academic Senate has recommended that, from 1976 onwards: (a) failure by a student to notify withdrawal from a subject will result in a failed grade being entered on the student's academic record; (b) no result will be determined where a student has failed to enrol in a subject; (c) any variation of entries included in a student's academic record in pursuance of (a) or (b) above shall be subject to a charge to be determined by Council from time to time; (d) that an appropriate fee in 1976 be \$40.

CONFIRMATION OF ENROLMENT. The Academic Senate has recommended to the Council that, failure by a student to return the Confirmation of Enrolment form by the date determined by the Registrar, shall be subject to a charge of \$10.

N. S. W. vice-chancellors meet

Vice-Chancellors of all universities in New South Wales met with the new State Minister for Education (Mr. Pickard) on March 8.

The discussion covered some proposed amendments to the various Acts of the universities.

The Vice-Chancellor, Professor L. M. Birt, reported to the March meeting of the Academic Senate that, for Wollongong, the amendments were designed to remove those parts of the University's Act which no longer had any application and to give expression to Government policy about the possibility of exclusion from membership of corporate bodies on the grounds of conscience.

The amendments also referred to university investment and discipline.

Professor Birt said that for some universities investment and discipline were sources of contention.

He said: "As for investments, our Act (which is, of course, the most recent in New South Wales) contains provisions which are generally acceptable to the Government, and the proposed amendments did no more than tidy up and clarify the present formulation.

"The same is true for discipline. Some universities find themselves without adequate legal cover for taking action on staffing matters other than to appoint to dismiss.

"Our own Act, however, empowers the Council to '...make By-laws for or with respect to --- (a) the management, good government and discipline of the University', and no amendment is necessary."

OPENING OF UNION STAGE III BUILDING IS A MAJOR LANDMARK IN UNION DEVELOPMENT

From both a physical and a philosophical viewpoint, the opening of the Union Stage III building provided the University with a major landmark in the development of the Union on the campus.

Union Board of Management chairman, Mr. D. J. Lear, said this during the ceremony to officially open Stage III on April 2.

Mr. Lear said: 'Physically, because, with the completion of the Stage III project, the Union is able to provide a range of facilities comparable to other Australian universities and hence establish the physical environment within which many of the 'co-curricula' activities of the University can be developed.

'Philosophically, because, concurrently with the opening of Stage III, the Union Board and the University Council have concluded an agreement making all employees of the University members of the Union and thus establishing a true university union.

'I am not suggesting that the creation of a university union in name produces one in fact--far from it.

'However, it is encouraging to see the Union being used by staff and students in common, since it opened at the start of session; there is a sense of life and activity in the building not present before.

'I only hope that this initial impetus can be sustained and developed.'

Mr. Lear said that the completion of a project of the magnitude of Stage III, indeed the development of the Union in general, was not the result of the actions of any one group of board members, but rather was the culmination of the work and effort by a number of people over a long period of time.

He paid tribute to the service provided to the Union during its early history by Dr. Frank Mathews (chairman from 1964 to 1968), Mr. Edgar Beale (presently a member of the University Council and the Union Board), and Dr. Frank Hall, senior lecturer, Department of Chemistry.

He also mentioned particularly the effort put into the Stage III project and the general development of the Union by the secretary-manager, Mr. Ian Dunn.

Mr. Lear said: 'His contribution to the Union and the University over that period has been significant, and its full impact will only be felt in future years.

'I wish him well in his 'retirement' to the peaceful life of an academic.'

(Mr. Dunn has assumed duties as a senior lecturer in the Department of Accountancy. He will continue, for the time being, on a part-time basis, as secretary-manager of the University Union.)

Mr. Lear said the Union had a long-term and continuing commitment to provide a meeting place where University members and other residents of the city could join together in activities of benefit to the community as a whole.

'Whether it is a wedding reception, a film night, a conference or a seminar, the Union encourages the use of the campus by all members of the community.

'The facilities are here for 52 weeks of the year, not just the 28 weeks of session time; and we would like to see them used.'

The Union buildings - a history

The University Union was established in 1964 with the appointment of an interim committee of management under the chairmanship of Dr. F. M. Mathews.

Stage I of the building was opened in 1965 and it provided for the needs of Union members until the completion of the Union Hall (Stage II development) in 1970.

The appointment of a secretary/manager in 1969 and the associated growth of the Union, together with the progress of the then



GATHERED in front of the plaque marking the official opening of the Union Stage III building on April 2 were, from left to right: the Vice-Chancellor, Professor Michael Birt; Union secretary-manager, Mr. Ian Dunn; Union president, Mr. David Lear; and Wollongong Lord Mayor, Alderman Frank Arkell.

University College towards autonomy, allowed scope for a greater involvement by members of the Board in the planning of the Stage III project.

Informal planning by the Board began in 1970; and this was later confirmed with the establishment by the University of New South Wales of an official Stage III planning committee in 1972.

Stafford Moor & Farrington, architects and town planners, were appointed project architects and detailed planning commenced.

During planning and construction there were unprecedented increases in costs which necessitated one major and several minor revisions in the building plans.

A pleasing feature, however, is that the original concept, as to number and disposition of rooms and facilities, has never altered in any substantial way.

The final cost of Stage III is about \$780,000 and the bulk of funds has been provided from government grants totalling \$660,000.

The balance has come from the University's own resources (including funds donated by the Commercial Banking Company of Sydney Ltd.), the Union, the Sports Association, and through a rent-in-advance agreement with the University Co-operative Bookshop Ltd.

The completion of these new buildings has provided the University Union with facilities upon which to develop a wide range of activities and services for its members - the students and staff of the University - and their guests.

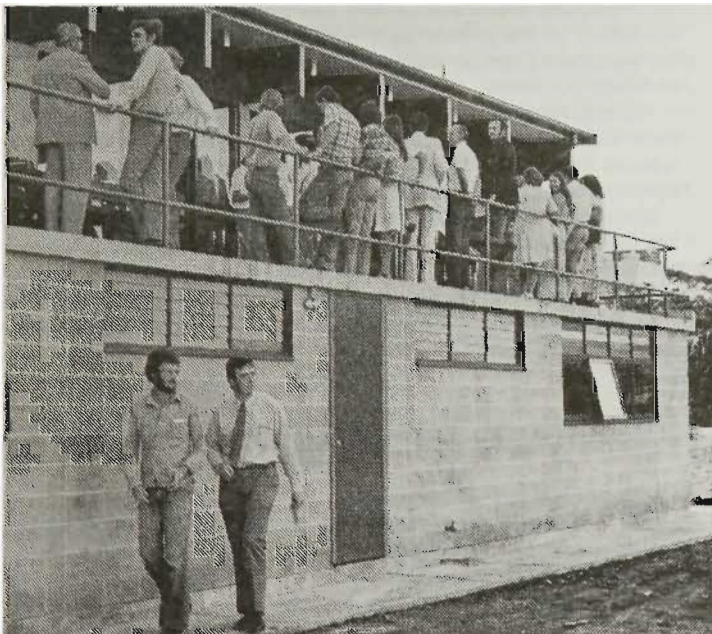
Facilities in Stage III include: new kitchens; a new dining room; an enlarged University Co-operative Bookshop; a new Union Shop; a take-away food service; a coffee bar; two licensed bars including a bistro; a private meeting room; two lounges with one having an adjacent open-air balcony; two squash courts; and new administrative offices including a board room.



LORD MAYOR of Wollongong, Alderman Frank Arkell, speaking before he officially opened the Union Stage III building on April 2.



A SECTION of the audience which watched the official opening of the Union Stage III building in the dining room on April 2.



THE BALCONY of the Sports Pavilion was popular with guests at the official opening of the Sports Pavilion on April 2.

Governor to open Library

The Governor, Sir Roden Cutler, will officially open the Library on June 11.

Stage II, recently completed at a cost of \$2 million, has extended the Library to more than three times its previous size.

The total floor area of nearly 6600 square metres will provide for about 600 reader places and will allow for expansion of the collection to more than 250,000 volumes of monographs and serials.

Fully air-conditioned, the building has three storeys and a basement.

Facilities include two seminar rooms, ten small study rooms (for one or two people), two group study rooms, an audio-visual area, a casual reading area adjacent to a new-book display, and an improved display area for serials.

A broad open expanse in the foyer will provide space for exhibitions and displays.

Massive, pre-cut, concrete panels are a feature of the exterior design.

The main entrance faces east. Above it, a balcony, which provides views to the Pacific Ocean, looks down on an area which, when funds are available, will be developed into the main square of the campus.

This area incorporates the fig trees, west of the University Union.

Before opening the Library, Sir Roden will install the Chancellor, Mr. Justice Hope, at the first University of Wollongong Graduation Ceremony in the Town Hall.

EFTS estimates for 1977-79

The Universities Commission has provided the Vice-Chancellor, Professor L. M. Birt, with 1977-79 EFTS estimates which it intends recommending to the Government as the basis for financial support for the University.

The estimates represent increases on the University's estimates put forward in the January 9 supplementary submission.

The revised estimates are: for 1977-2020 EFTS (higher degree 230 EFTS, other than higher degree 1790 EFTS); for 1978-2190 EFTS (250 and 1940); for 1979-2475 EFTS (275 and 2200).

The Universities Commission made the upward revision following discussions between the Vice-Chancellor and the commission chairman on March 4.

Professor Birt has advised the commission that the University accepts the figures as the basis for funding for the 1977-79 triennium.

He informed the March meeting of the Academic Senate that the revised numbers pointed to a growth of about 10 percent per annum throughout the triennium.

This was considerably greater than the average rate of growth for universities in the State.

The Registrar, Mr. R. F. Stewart, said: "Our analysis indicates that there will be a sufficient stock of potential students to enable the financed enrolments to be achieved.

"However, it seems likely that the past growth in university enrolments may not be financed at the same rate in the coming triennium, with one of the consequences being a more rigorous admissions policy having to be adopted by all universities."

FOOTNOTE: EFTS stands for equivalent fulltime students. It is the standard unit which the Universities Commission uses to assess the financial requirements of universities. Its calculation is based upon the number of weighted student units generated by the enrolments in each subject in each department.

PAVILION SERVICES SPORTING NEEDS

The University of Wollongong is fortunate in having within it such large, attractive and well-cared for playing fields and open spaces, made all the more impressive by their contiguance with the grounds of the Institute of Education.

Since 1968, the Sports Association and the University have recognised the need for a Sports Pavilion to service the field sports, but it was not until 1974 that funds were available for the design and construction of the new building.

In anticipation of a future combination and rationalisation of the playing fields of the University and the Institute, it was decided that the Pavilion should be a nuclear structure capable of being supported by future buildings, and forming a sports group which will be at the centre of the field sports area.

It is planned that the combined playing fields will be formed into two distinct and wholly usable playing areas - the lower eastern area approximately three metres below the upper. This is why the Sports Pavilion, which is sited at the future change in level between the two areas, has two stories, the upper of which is at the level of the future higher playing fields.

The lower floor of the Pavilion contains changing and ancillary facilities for mens' teams and is symmetrical about the central store. It provides duplicate accommodation for the home and visiting teams at the north and south ends respectively.

Each end has mens' team accommodation consisting of two change rooms for teams up to Rugby Union size, common shower rooms and toilets. The shower is a central column type, with shower roses radiating from it. Up to six men can shower at the same time each with individual temperature and flow control.

At the southern end of the building, there are toilets for spectators; and the equivalent space at the northern end contains a room for referees, linesmen and umpires with changing and shower facilities. A first-aid room is also provided with a basin and hot and cold water and enough room for couch and stretcher.

Some players may need the "magic water" during vigorous matches, but all sports men and women want hot water at the end of the game; and the raising of hot water was given special prominence by the University and the Sports Association during the discussions and briefing with the architect.

The system has been designed to provide sufficient hot water for 90 people at 80-minute intervals.

To do this, a hot-water cylinder, two metres in diameter and two-and-one-half metres high, is positioned in the central store on the lower floor.

The cylinder has a capacity of 5000 litres (1100 gallons) and will deliver hot water at the rate of 2.5 litres per second (33 gallons per minute) at a temperature of 60°C. The water in the cylinder is heated by two banks of heating elements, each bank rated at 18kw.

Separate switching enables only one bank of heaters to be used during week days and in the summer months, but peak winter loads will require all 36kw to be utilised.

But the hot water in the cylinder is never used, because through it runs a coil into which water enters at the base at ambient temperature and mains pressure. By the time the water reaches the top of the coil and emerges from the cylinder, it has been heated by the surrounding hot water to 60°C.

Pipework connects both hot and cold water to the shower heads, which are fitted with simple flow restrictors which have the effect of reducing the hot and cold water mains pressure, helping to save water consumption and minimising the possibility of scalding. The capacity of the cylinder is a balance between the anticipated demand and the power supply available.

The power supply, as well as all other services into and out of the building, had to be connected to their respective systems which are a considerable distance away. These services include electricity, telephone, water, fire hydrant and the sewer line.

The author of this article, Mr. John Scott, is the Project Architect, for the construction of the Pentagon, the Social Science Building and the Sports Pavilion. He is an associate of the Sydney firm of engineers, architects and planners: Crooks, Michell, Peacock, Stewart Pty. Limited.

The sewer posed its own special problem, because the relative level of the Pavilion and the nearest sewer connection made the normal gravity feed impossible. A special pit and submersible pump had to be installed which moves waste and sewage "uphill" into the University drainage system.

Womens' change rooms, showers and toilets, are on the upper floor, the accommodation being for home and visitors' teams of up to 11 players each. Similar facilities as described on the lower level are provided for women players, with the exception of the showers, which are separate cubicles.

The majority of the upper level is for use by all players and members of the Sports Association.

There is a large Club Room approximately ten metres long and six metres wide, a warm, friendly space which no doubt will be used for many social and fund-raising activities connected with the various Sports Clubs.

It gives access onto a large balcony from which matches may be watched, and which will surely become a most congenial meeting place on warm evenings.

At one end of the Club Room, a small servery can dispense foods and beverages and at the other there is a display case which everyone hopes will soon be full of hard-won and well-earned trophies.

At the northern end of the Club Room the small Committee Room will be invaluable.

That most important person, the Groundsman, has his store and workshop on the ground floor where all but the largest of the sporting equipment can be kept, together with line-markers, mowers and the like.

The construction of the building is straightforward: concrete floor slabs, concrete block walling, timber roof trusses with a corrugated iron roof. The severity of the unpainted blockwork is offset by the use of bright colours on doors and roof trim.

Internally, these colours are again used, and in the Club Room the warm brown carpet and stained plywood trusses make for a very pleasing space.

The flag at the Pavilion masthead will no doubt fly most week-ends from now on if matches are in progress. Participate if you can, but if you can't - join us on the sidelines.

Evening of Russian music

The University of Wollongong Wives' Group will hold an evening of Russian music, featuring Glinka, at 7.30 p.m. on April 30 in the Institute of Education auditorium.

Artists will be Jane Baxter (violin), Louise Butler (cello), Nadia Kokot (piano) and V. Groitsky (soprano).

Tickets are \$2. They can be obtained from the Information Office, Dr. Donald Pearson-Kirk (Civil Engineering), and Dr. Richard Facer (Geology). Proceeds will be donated to Greenacres.

Light refreshments will be served during the evening.

For life outdoors, join WUCO



CASCADE HUT in the Snowy Mountains during winter. WUCO members use the hut when on cross-country skiing trips. Photo: John Graham

Wollongong University Club for Outdoors (WUCO), as its name suggests, caters for people interested in any type of outdoor recreation.

We try to encourage as many aspects of outdoor life as possible and always welcome suggestions from members.

So far we have organized trips involving the following wide range of activities: bushwalking, cross-country skiing (Nordic or Langlauf), canoeing, caving, abseiling, canyoning, liloing and bicycling.

The membership is as varied as the range of activities.

Some members specialise in some of the less demanding activities such as barbecues; others in three-week trips in the wilds of south-west Tasmania.

But if you have interests within this range of activities, you'll find trips to your liking.

Over the past few months, we have had a few easy one-day trips with barbecue lunches, swimming, and nothing nasty like scratched legs or thousand-foot climbs.

We've had several weekend trips, including one special all down-hill trip along the Wollondilly River and a beginners' caving trip.

The skiing season is about to begin and, maybe, the run of rainy weekends will come to an end; so don't put off joining till next year.

To encourage people who haven't done much of this sort of thing, the club has a pool of equipment: packs, tents, ropes, carabiners' slings, canoes, compasses and maps, which are lent out free to members and at a nominal charge to non-members who want to go on club trips.

The range of coming activities is published in a club news sheet, which can be picked up in the foyer of the Engineering Building.

It only takes one or two trips to become addicted, provided it doesn't rain and we don't get lost; so try it!

Membership enquiries should be directed to: Bevan Jones (Room G9A, ground floor, Electrical Engineering Building, ext. 308).

John Graham,
President

Outdoors Club general meeting

The annual general meeting of the Wollongong University Club for Outdoors (WUCO) was held on April 15.

Office-bearers are: John Graham, president; Kevin Donegan, vice-president; Graham Marshall, treasurer; Ian Burns, secretary; Rod Nillsen, quartermaster; Bevan Jones, trip secretary.

Bevan will be responsible for co-ordination of activities, dissemination of information, and handling of enquiries. He is available in Room G9A, ground floor, Electrical Engineering Building (ext. 308).



WUCO member, John Lewis, abseils from the north-east face of Mt. Keira on a "beginners" day. Photo: Kevin Donegan.

To cut costs, it has been decided not to post newsheets to members; they will be available for collection from the entrance lobby of the Electrical Engineering Building.

The club's policy on lending of gear is: club members on club trips - no fee; club members on non-club trips - fee of 50c/week; non club members - fee of \$1/week.

Access to gear is in the preference of the above list. The Quartermaster, at his discretion, can charge a deposit on gear. Canoes and climbing ropes are not available on non-club trips. Gear is available from Rod Nillsen, Room G35, A.C.S. building (ext. 250).

The club is at the moment a member or in the process of becoming a member of the Kosciusko Huts Association (KHA); National Parks Association (NPA); NSW Federation of Bushwalkers, and South Coast Conservation Society.

Members are reminded that dues of \$1 are now payable to the treasurer.

Wives' Group holds general meeting

The annual general meeting of the University of Wollongong Wives' Group was held on March 3.

New members of the executive are: Greta Pearson-Kirk, president; Phyllis Shipperlee, vice-president; Patricia Hyde, secretary; Beth Facer, treasurer; Betsy Lilley, social secretary; Barbara Jones, additional member.

Geol. Soc. celebrates 10th year

The Geological Society this year celebrates its tenth year as the most active and member-oriented society on campus.

From solid foundations - formed when the Department of Geology was in its infancy - the society has functioned well to keep a close liaison between students and staff.

The society is guided not only by undergraduate, postgraduate and staff representatives, but also by an industrial-mining representative.

In this way, a close contact is maintained between University and geology-related industries. Membership this year is already 60 and growing.

Last year, Geol Soc organised, set-up and ran a very successful student-priced, subsidised, 23-day tour of the far North. Forty members participated. Future trips are planned, but will be of a shorter duration.

This year the Society's aims are greater. Geol Soc will publish a commemorative, tenth-year magazine, with historical notes, staff-student articles and a pictorial essay on past activities. Plans for silk-screening T-shirts (with our own emblem) and membership cards are well on the way to completion.

In May, a week-long tour through the Tumut area has been

planned. This will introduce members to the local geology (and pubs!) and is being led by Dr. Bryan Chenhall. Geol Soc is subsidising petrol expenses to members.

Planned for the week July 26 to August 1 are the Tenth Birthday Celebrations: an eventful week of wine-bottling, barbecues and other social events.

Geological Society also offers the usual monthly meetings, camping weekends (in March, a quiet weekend was spent at Corunna Lakes near Narooma), two skiing trips later this year, and occasional social evenings in Sydney.

At the monthly meetings, invited guests speak on varied aspects of geology and the talks are at undergraduate level. Slides make up most of the talk. Refreshments and socialising always follow such a meeting.

This year, elected officers of the executive are: Phil McKenzie, president; John Pemberton, secretary; Dennis Frost, treasurer; post-graduate rep., Agu Kantsler; unfilled, 4th-year (Hons.) rep.; Gerry Bellach, 3rd year rep.; Peter Cowan, 2nd year rep.; to be elected this month, 1st-year rep.; Graeme Strachan, industrial-mining rep.; Dr. Richard Facer, staff rep.; Avis Depers, publicity officer.

Enquiries regarding membership are welcome. Contact John, Avis, Phil or Agu in the Department of Geology (ext. 327) or go to one of the monthly meetings. They will be advertised in advance.

LIBRARY NEWS

New deposits for Archives Unit

Since July 1 last year, the Archives Unit has received six new deposits of non-University records and three new deposits of University records.

In addition, three deposits of records to be added to existing collections of University records were received, including about 300 student files.

The non-University deposits include a set of minute books, from the Federated Rubber & Allied Workers Union of Australia (N.S.W. Branch), which cover a period of from 1918-1973.

Another deposit is from the Clothing & Allied Trades Union (N.S.W. Branch). It includes correspondence and legal records, in addition to very valuable minute books dating back to 1875.

The University-record deposits include minutes of various academic committees from the Departments of History, Mathematics and Metallurgy.

In addition to receiving these deposits, eight other existing deposits have been fully processed, with two more being processed at the present time.

The Archives Unit is to have space for true reference work on the first floor of the Library. Some of the smaller collections will be moved there, including the valuable pamphlet collection, and there will be space for the Unit's staff and for researchers.

New accessions will continue to be received at Kenny Street, where the processing will continue to be carried out and where the bulk of the records will remain.

Records requested by students will then be taken to the office in the Library, and this should be a great improvement on the present situation.

Library fines buy books

The Vice-Chancellor, Professor L. M. Birt, has informed the Librarian, Mr. J. Hazell, that the full amount of Library fines obtained each year will be added to the Library allocation for purchase of

monographs, serials etc. Library fines in 1976 are expected to amount to \$5,000.

Practical work in Wollongong libraries

The Head of the School of Librarianship at the Kuringai College of Advanced Education, Mrs. M. Trask, visited the University Library recently.

In discussions with Mrs. Trask, it was noted that one difficulty is likely to be the perennial problem of accommodation of students for periods of up to a week at the most.

The University Librarian, Mr. J. Hazell, would be glad to hear from anyone prepared to accept students for short periods. It is understood, of course, that payment would be made for accommodation provided.

Some students of the College undertaking the course in Teacher Librarianship were allocated practical work in Wollongong libraries, especially the City Library.

It is likely that future disposition of students will include the University Library, particularly when the general courses in librarianship begin.

Alliance Francaise branch formed

An enthusiastic meeting of more than 60 people at the University on March 23 decided to press on with the formation of an Alliance Francaise branch in Wollongong.

Professor Barry Leal, Chairman, Department of French, had called the meeting to ascertain whether sufficient interest existed in the community to justify a Wollongong branch.

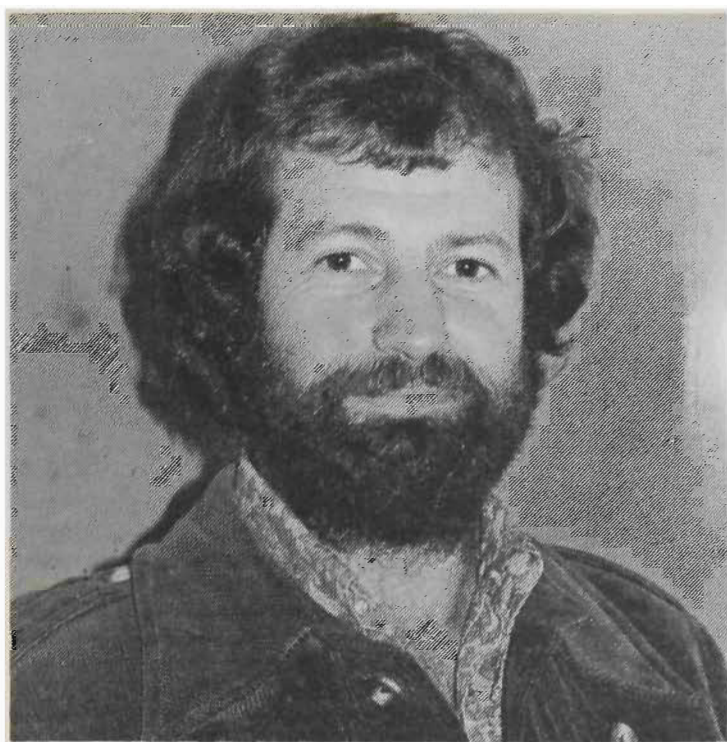
The meeting elected a steering committee of six which will apply to Paris for recognition of the branch, organise elections, and draw up a programme of activities for this year.

Because an overwhelming number of people requested conversation groups and the establishment of closer contacts between French and English speakers, the committee has decided that the next meeting will be a wine and cheese evening at which French-Australian contacts will be encouraged.

The meeting will be held at the University in the General Lecture Theatre at 7.30 p.m. on April 27.

FOCUS ON PEOPLE

Big grant jointly to Prof. King



PROFESSOR R. C. King, chairman, Department of Education.

Department of Education chairman, Professor Ron King, has been named as a co-project director in an Australian Department of Social Security sponsored investigation into the "work preparation of mildly mentally retarded adolescents" in Melbourne.

The investigation has been funded with a grant of \$40,000 annually for three years.

Professor King will work with Mr. Steward Sykes, a lecturer in the Department of Education at Monash University.

(Before his appointment to the Foundation Chair of Education at Wollongong, Professor King was a senior lecturer in the Department of Education at Monash University.)

The investigation seeks to provide information concerning: motivation of trainees; the relationship between particular workshop contracts and the development of work and social skills in mental retardates; training methods and equipment; continuing education programmes for mental retardates; types of and balances between personnel; and staff training procedures.

Professor King said: "In the short term, it is hoped that such a study will help to alleviate many of the personal and social difficulties experienced by work preparation centre trainees and their families.

"In the longer term, the study is seen as providing the basis for a continuing policy-correction system to be established with respect to the training and employment of people who are mildly mentally retarded."

Two awarded travel grants

The British Council has awarded travel grants to two members of the academic staff in the Department of Mechanical Engineering.

They are Associate Professor S. E. Bonamy and senior lecturer, Dr. R. T. Wheway.

The grants will assist with their study-leave travel costs.

Professor Bonamy will be on study leave from December this year to July next year, visiting the University of Singapore and the City University, London.

He will assist in Applied Thermodynamics research and undertake postgraduate teaching as well as investigating formal postgraduate courses offered in the United Kingdom.

Dr. Wheway will be on study leave from July this year to February next year.

He will visit the Departments of Mechanical Engineering and Environmental Engineering at the University of Birmingham.

These departments are teaching and researching in areas similar to Dr. Wheway's teaching areas and research interests, including creative design, environmental engineering, and industrial water pollution identification and control.

Conferences for academic staff

A number of members of the academic staff are attending, or later this year will be attending, overseas conferences.

Dr. P. G. BURTON, lecturer, Department of Chemistry, is attending the Second International Congress of Quantum Chemistry in New Orleans from April 19 to 24.

Dr. Burton will deliver two papers, both related to research into finding new and more economical ways of computing the electronic structure of molecules, as a precursor to proposed studies in the detailed energy transfer processes involved in selected chemical reactions.

The titles of the papers are:

1. "Evaluation of approximate wave functions using the variation theorem: water and the hydrocarbon series CH_4 to C_5H_{12} " (by P. G. Burton and N. R. Carlsen).

2. "Efficacy of bond functions in extended basis SCF calculations. Parameter optimization and elucidation of the electronic structure of O_3 and SO_2 " (by P. G. Burton, N. R. Carlsen, and R. J. Dooley).

Dr. Burton said that about 250 scientists from all over the world would attend the conference.

He said: "Such interest in this conference reflects the increasing role quantum chemistry is playing in quantitatively elucidating fundamental chemical processes.

"It also reflects the increasing realisation that rapid development in the last decade or so has made the computer predictions of quantum chemistry more and more reliable to the experimental chemist."

Department of English chairman, Professor R. G. T. SOUTHALL, is attending the Congress of the Shakespeare Association of America in Washington, D.C., from April 19 to 25.

His special contribution will be to the seminar on Marxist Interpretations of Shakespeare. His paper is titled "Shakespeare: History as Ideology".

A paper, of which Associate Professor W. H. CHARLTON, Department of Electrical Engineering, is a joint author, was read earlier this month at the American Institute of Chemical Engineers 81st National Meeting in Kansas City.

The paper is titled "Optimization and control applied to transportation of bulk solids". (The other contributors to the paper are A. W. Roberts and C. Chiarella.)

Department of Geography chairman, Professor M. G. A. WILSON, will attend the International Geographical Union Congress and Symposium in Russia during July-August.

The congress will be held in Moscow and the symposium, on Population Geography, in Minsk. Professor Wilson will deliver a paper titled "Infant death in metropolitan Australia 1961-73: Dimensions, Dynamics and Determinants".

Associate Professor E. GELLERT, Department of Chemistry, will attend the Tenth International Symposium on the Chemistry of Natural Products in Dunedin between August 23 and 27.

Seminar: Myths on Celluloid

In recent years, disaster films such as "The Towering Inferno", "Earthquake", and "The Poseidon Adventure" have been huge box office successes.

Why have these films been so attractive to the film-going public? Why have they appeared at this point in time?

On the surface these films seem only to offer entertainment---- "cheap thrills"; but is there a hidden message, another layer of meaning?

Are these films popular because they reflect an unconscious concern, even fear, about the frightening vulnerability of our social system and its technological infrastructure?

By analysing the content and structure of popular films much can be learnt about the way people compress, transfigure and objectify areas of distress and conflict which society does not confront "officially".

Such analysis will be done during a film seminar, Myths on Celluloid----A Structural Approach to Film Criticism, to be held on April 30 and May 1 in the Pentagon Lecture Theatre Complex.

A joint presentation of General Studies and the W.E.A., this weekend seminar will study a number of popular films of the early 1950s for their disguised content relating to social, political and sexual themes.

The guest lecturer will be Mr. John Flaus, formerly lecturer in film theory at Latrobe University's Media Centre and now head of the Education Branch, Australian Film and Television School.

The seminar programme will consist of screenings of films followed by a critical analysis led by John Flaus.

Seminar times are: April 30, 7 p.m. May 1, 9.30 a.m. to 5 p.m. (lunch break of 1½ hours), 7 p.m. to 11 p.m. Fee: \$10 (\$7 for fulltime students).

The Wollongong plate



The University of Wollongong plate (above) is part of the "Universities of Australia" plate collection.

Made at the Bing & Grondahl porcelain factory in Copenhagen, the collection commemorates Australia's 18 universities.

The six-inch, Danish-blue, porcelain plates depict scenes and/or armorial bearings of each university.

A total of 500 Wollongong plates will be released in August this year. The retail price is expected to be \$21.95.

Stockists in Wollongong will be Simons Jewellers and David Jones. Orders for plates from Simons can be made at the Union Shop.

Through a recent agreement, goods sold by Simons are available at a discount, to Union members, through the Union Shop.

The customer will receive a five percent discount on retail prices; the Union, on all sales, will receive a five percent commission.

University members wishing to take advantage of this service will be required to present vouchers to Simons. Vouchers are available from the Union Shop.

Academic calendar for 1977

The Academic Senate and the University Council have resolved that the academic calendar for 1977 be:

- Session 1: February 28–May 8
May Recess: May 9–May 22
May 23–June 19
Study Recess: June 20–June 26
Examinations: June 27–July 10*
Mid-year Recess: July 11–July 24
- Session 2: July 25–August 28
August Recess: August 29–September 4
September 5–November 6
Study Recess: November 7–November 13
Examinations: November 14–December 4*
- * This period may need to be extended.

The structure of the academic calendar for possible introduction after 1977 has been referred to the Academic Assembly for comment.

Apexians plan big campus gathering

The University will be the venue for more than 1000 Apexians during their Zone 2 convention over the October long weekend.

The four-day convention is being held on the South Coast for the first time since 1965. It will begin in the afternoon of October 1 and end in the afternoon of October 4.

Among major activities to be held on the campus are: the grand ball, an ecumenical service, the public speaking final, and the farewell luncheon.

West Wollongong Apex Club is organising the convention.

Humanities Laboratory Programme

The Humanities Laboratory Programme will be held in the Main Lecture Theatre on Thursdays at 1.30 p.m. Sessions are about one hour long.

The programme on April 22 will feature The Elizabethan Ambassador, a film based on the "story" portrait of Sir John Unton (1557-1596), and The Image, Renaissance nude drawings in the British Museum.

Other sessions will be held on April 29, June 3 and June 10. Anyone interested is welcome to attend. Watch Take Note for the programme details.

SPORTING NEWS

Rugby news "not all good"

The club needs players!

Rugby Club news this time is not all good.

We were badly let down in our first competition match when only twenty players arrived to play three grades at Campbelltown Showground.

Consequently, we had to forfeit the Third Grade and double-up most players for First and Second Grade.

Such instances are very disheartening to the executive and players; but it would appear that all our attempts to encourage more players are dwarfed by a lack of interest and pride in the University, particularly evident among Rugby players who prefer to play for outside clubs.

Our club is caught in a "Catch 22" situation because, to attract more players, we need to win games; but, to win games, we need more players to enable us to field a fresh First Grade team.

We can in fact, use twenty-odd new members to enable us to field three grades and allow those with injuries to sit on the sideline until fit.

This was not the case in the game against Port Kembla when many players carrying injuries played Second Grade to enable as many as possible to go on fresh in the First Grade game.

Again, we were forced to forfeit in the third grade and went down 24-7 in the Seconds and 18-0 in the Firsts, which were improvements on the previous week.

We do, however, have the players and ability to win games if given the depth in the lower grades and players attending training and not only the games.

Coming matches are: April 24, Kiama at Uni. Oval; May 1; Shoalhaven at Uni. Oval; and May 8, Vikings at Figtree Oval.

On the brighter side, Intervarsity is coming up in Melbourne from May 9 to 13 and we are now calling for interested players to give their names and a \$10 deposit to Snow Brewer, the Chairman of the Intervarsity Committee.

We hope to take a full contingent of twenty-five players this year.

The programme is: Sunday (9th), official reception; Monday (10th), game and evening free; Tuesday (11th), game and cabaret; Wednesday (12th), all-day barbecue; Thursday (13th), game and annual Intervarsity Dinner; Friday (14th), return to Wollongong.

We need to raise a considerable amount of money for this trip, which brings us back to the old point of support from the University community, both on and off the field.

So let's have a few of you "extracting the digit" and getting right behind your University Rugby Club.

Yours in Rugby,
Brian Noone, President.

Good start for Aussie Rules

The University Australian Rules Football Club began the season well by winning both First and Reserve Grade games in the first round of the competition on April 11.

The Reserve-Grade side took the field six players short, but put on an encouraging display despite inexperience (many players were having their first game) to defeat Bulli-Woonona by 28 points.

Final scores: University 6-14-50 d. Bulli-Woonona 3-4-22. Best for University: M. Barraclough, T. McGirr, R. Werakso.

First Grade, after a shaky first quarter, settled down with a very good display of fast open football to run out easy winners over Bulli.

It was most pleasing to note that all players contributed to the win with good teamwork.

University were too strong in most positions, particularly Fred Bartsch and Dave ('Snake') Phillips who dominated the roving.

Final scores: University 10-12-72 d. Bulli-Woonona 3-8-26. Best for University: F. Bartsch, D. Phillips, P. Neirle, A. Wolfe, C. Rogers, G. Rennie, M. O'Sullivan.

Congratulations to D. Phillips, F. Bartsch, G. Rennie, D. Dorrian, D. Jolliffe, P. Kala and J. Thorne who were selected and performed well in the Illawarra Representative side which won the South Coast knock-out competition on April 3.

The club is short of non-playing support. It needs people for goal and boundary umpires, first-aid officer, and general supporters. Please contact T. Heazlewood (Accountancy) and P. Burton (Chemistry).

Table Tennis club news

University champion, N.Q. Thoi, was elected president of the University Table Tennis Club at its annual general meeting earlier this month.

Other office-bearers are: John Ryan, vice-president; secretary-treasurer, Keith Phipps; and publicity officer, John Korth.

The meeting decided that 1976-77 club fees should be set at \$2 per University member and \$4 per non-member. These would be collected by team captains and handed to the treasurer no later than the fourth week of the Winter Competition.

Teams for the Winter Competition have been finalised. They are:- DIVISION 1: Uni. 1---N.Q. Thoi (capt.), Colm Kiernan, Julian Chytil, Le Dzung, John Korth. DIVISION 2: Uni. 2---John Ryan (capt.), Joseph Leung, Keith Phipps, Ian Hunt. Uni. 3---Andreas Moghali (capt.), L.H. Quang, John Warmoll, N.N. Ban, Richard Lin. DIVISION 3: Uni. 4---Gino Liauw (capt.), Vangkone Panichit, Outhong Phongsovat, Douglas Martin, John Chan. Uni. 5---G. Holz (capt.), A. Holz, W. Dowdell, D. Graham, Raymond Lau. DIVISION 4: Uni. 6---John Johnstone (capt.), Abdul Baghdadi, Mohamed Iqbal, Fu Tjiang Ng, Tony Tesoro. Uni. 7---Phillip Webb (capt.), B. Pascoe, S. Mobbs, A. Deak, P. Rigney. Uni. 8---Mai San (capt.), N.V. Huyen, Mukesh Mehta, Allan Lewis, John Denison.

University 3 and 5 performed well in the Summer Competition, winning Divisions 2 and 4 respectively. University 1 finished second in the competition, losing 5-6 to Figtree in the final match.

N.Q. Thoi defeated B. Marcelja (Lysaght) to win the final of the Illawarra Table Tennis Association Handicap Competition on April 10. Other University players who competed were: John Ryan, Joseph Leung, and Richard Lin.

The club has booked the Union Hall every Thursday from 7 p.m. until 12 p.m. for Winter Competition matches.

This means that every week, four University teams will play at home (where four tables will be set up in the Union Hall) and four teams will play away on the opposition's home night and home tables.

If Thursday night is unsuitable, arrangements can be made on other nights to play in the Hockey Hut. Team captains should contact the club president on this matter.

By agreement with the Union house manager, one or more tables may be set up in the Union Hall at lunch time (or at any other time) by club members for training and by non-members for social games, provided they move all the chairs out themselves and replace them after playing.

Players should check for bookings with the secretary in the Union Office. Nets are available from N.Q. Thoi (Room 103, Engineering Building).

Efforts have been made to organise coaching sessions for beginners and competition players who want to improve their games. Please watch Take Note for further news.

News from the Soccer Club

After losses at the beginning of the competition, the University First Grade team defeated competition leader Shellharbour 3-1 on April 11.

Everybody played well, and the result indicates the team's ability. Shellharbour is a strong team, and the win has made us confident of finishing near the top of the competition if we can repeat the display every week.

Andy Mullan scored two good goals and Rob Kinloch scored the third. Our next game is against Balgownie Rangers at the University Oval on April 24, and we would like to see as many supporters there as possible.

The Soccer Club also has a team playing in the local Business Houses Social Competition. This team has been playing well with some good wins.

The social team plays at 10 a.m. on Sunday mornings and welcomes all supporters to these games.

Their next game is on April 25 against Koonawarra at Koonawarra (for information about the social team, see any member of the Soccer Club).

Information on where and when both the 2nd Division and social teams play will be posted on the main notice board in the Union each week.

The Soccer Club will go to Macquarie University for Intervarsity between May 9 and 15, and all supporters will be welcome. Soccer training times: Monday and Wednesday at 7.30 p.m. at the University Oval.

Phil Woollett

Hockey looks to a bright year

This year looks as if it will be another successful year for the Men's Hockey Club.

Last year, three of the five teams reached the semi-finals, with two reaching the grand final.

Second Grade won the major premiership by 12 points, but lost the minor premiership 2-1 to Albion Park in the grand final.

Fourth Grade missed out by one point in winning the major premiership and lost by one goal in the grand final for the minor premiership.

First Grade lost the final 2-1 to Wollongong, after finishing second to Albion Park on the points table.

Third Grade and Fifth Grade also won many games to gain valuable points for the club enabling it to win the Club Championship and also the Handicap Trophy.

Robert Collins (playing only his third year of hockey) won the Player of the Year in Illawarra, a title University's Peter Ansell had won the year before.

At Intervarsity, University proved the bogey team for many clubs and ended sixth out of 14. We were the only team not to be defeated by Tasmania with whom we drew 2-2. Ken Johnson was again selected in the Australian University side.

This year, although we lost a fair few players and now only have four teams, the teams look stronger than ever.

So far, First Grade has won both its competition games (7-2 v. Uni. 11 and 3-0 v. Wests 11) and looks to be the team to beat.

Second Grade lost narrowly (2-1) to Albion Park 1st last week after leading 1-0 for most of the game.

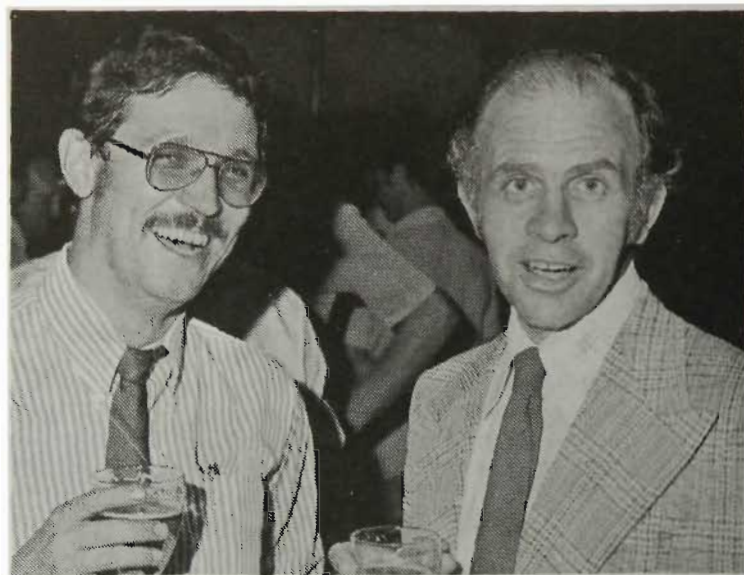
Third Grade defeated Fourths 3-0 in the first game and St. Stevens 3-0 in the following round.

Brian Schofield, a "newy" to the game, scored the three goals for Uni.

Fourth Grade lost last week's round to Albion Park Thirds 5-2, but never gave up trying.

For many of the Fourths, this is their first season playing the game and they are improving with every game.

Nigel Smith,
Secretary, W.U.M.H.C.



ENJOYING a drink after the official opening of the Sports Pavilion on April 2 were Union catering manager, Mr. Burkhard Mielke, and Professor John Ryan, chairman, Department of Accountancy.



A STEAK for Professor Peter Fisher, chairman, Department of Physics, at the barbecue which followed the official opening of the Sports Pavilion on April 2.

The University of Wollongong

CAMPUS NEWS

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